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**TRANSMITTAL FORM**  
(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission: **377**

**ENCLOSURES (Check all that apply)**

☒ Fee Transmittal Form  
☐ Fee Attached  
☐ Amendment/Reply  
☐ After Final  
☐ Affidavits/Declaration(s)  
☐ Extension of Time Request  
☐ Express Abandonment Request  
☒ Information Disclosure Statement  
☐ Certified Copy of Priority Document(s)  
☐ Responses to Missing Parts/Incomplete Application  
☐ Responses to Missing Parts under 37 CFR 1.52 or 1.53

☐ Drawing(s)  
☐ Licensing-related Papers  
☐ Petition  
☐ Petition to Convert to a Provisional Application  
☐ Power of Attorney, Revocation  
☐ Change of Correspondence Address  
☐ Terminal Disclaimer  
☐ Request for Refund  
☐ CD, Number of CD(s)

☐ After Allowance communication to Technology Center (TC)  
☐ Appeal Communication to Board of Appeals and Interferences  
☐ Appeal Communication to TC (Appeal Notice, Enter, Reply Brief)  
☐ Proprietary Information  
☐ Status Letter  
☐ Other Enclosure(s) (please identify below):

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name: **Robert L. Harrington, Reg. No. 20,094**  
**Schwabe Williamson & Wyatt**

Signature: *Robert L. Harrington*

Date: **August 6, 2004**

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage, as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name: **Sally Houk**

Signature: *Sally Houk*

Date: **Aug. 11, 2004**

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including generating, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**FEE TRANSMITTAL for FY 2004**  
Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT (\$)-0-**

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:  
Deposit Account Number: **500393**  
Deposit Account Name: **Schwabe Williamson Wyatt**

☐ The Director is authorized to: (check all that apply)  
☒ Charge fee(s) indicated below ☒ Credit any overpayment(s)  
☒ Change any additional fee(s) or any underpayment of fee(s)  
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION**

Large Entity Code (\$)	Small Entity Code (\$)	Fee Description	Fee Paid		
1001	770	2001	365	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	205	Plant filing fee	
1004	770	2004	365	Release filing fee	
1005	160	2005	50	Provisional filing fee	
<b>SUBTOTAL (1)</b>			<b>(\$)-0-</b>		

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Large Entity Code (\$)	Small Entity Code (\$)	Fee Description	Fee Paid		
1202	15	2202	0	Claims in excess of 20	
1201	80	2201	43	Independent claims in excess of 3	
1203	290	2203	143	Multiple dependent claim, if not paid	
1204	65	2204	43	Release independent claims over original patent	
1205	15	2205	0	Release claims in excess of 20 and over original patent	
<b>SUBTOTAL (2)</b>			<b>(\$)-0-</b>		

**3. ADDITIONAL FEES**

Large Entity Code (\$)	Small Entity Code (\$)	Fee Description	Fee Paid		
1031	130	2031	65	Burcharge - late filing fee or oath	
1032	50	2032	25	Burcharge - late provisional filing fee or cover sheet	
1033	130	1033	130	Non-English specification	
1812	2,820	1812	2,820	For filing a request for ex parte reexamination	
1804	920	1804	920	Requesting publication of SIR prior to Examiner action	
1805	1,840	1805	1,840	Requesting publication of SIR after Examiner action	
1261	110	2261	55	Extension for reply within first month	
1262	420	2262	210	Extension for reply within second month	
1263	650	2263	475	Extension for reply within third month	
1264	1,490	2264	740	Extension for reply within fourth month	
1265	2,010	2265	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	530	2402	105	Filing a brief in support of an appeal	
1403	290	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or release)	
1502	450	2502	225	Design issue fee	
1503	840	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	25	Processing fee under 37 CFR 1.17(c)	
1808	180	1808	180	Submission of information Disclosure Stmt	
9021	40	9021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2609	385	Filing a notice after final rejection (37 CFR 1.126(c))	
1810	770	2610	385	For each additional invention to be examined (37 CFR 1.126(c))	
1801	770	2601	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify):					
*Reduced by Basic Filing Fee Paid					
<b>SUBTOTAL (3)</b>			<b>(\$)-0-</b>		

**SUBMITTED BY**  
Name (print/type): **Robert L. Harrington**  
Signature: *Robert L. Harrington*

Registration No. (print/type): **20,094**  
Date: **Aug 6, 2004**

Telephone: **603 796 3742**

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Attorney Docket No. 108682-133291

Patent

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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AUG 11 2004

In re Application for:

RAYMOND B. BUSHNELL

Application No.: 10/706,507

Filed: November 11, 2003

For: VAPOR FUELED ENGINE

Examiner: Not Yet Assigned

Art Group: Not Yet Assigned

Confirmation No. Not Yet Assigned

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Typed or Printed: Sally Houk

Signature: *S Houk*

Date: 8-11-04

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.97(g), the submission of this Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, and, pursuant to 37 C.F.R. § 1.97(h), the submission of this IDS is not to be construed as an admission that the information cited in this IDS is material to patentability.

This IDS is being submitted under one or more of the following sections of 37

C.F.R. § 1.97 (as indicated by an "X" to the left of the appropriate paragraph(s)):

  X   37 C.F.R. § 1.97(b). Filed:

- (1) Within three months of a National Application other than a CPA;
- (2) Within three months of entry into National Stage;
- (3) Before mailing of a first Office Action on the merits; or
- (4) Before mailing of a first Office Action after filing an RCE.

       37 C.F.R. § 1.97(c). Filed before the mailing of a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution.

And, ONE of the following:

(1) One statement from 37 C.F.R. § 1.97(e);

      (e)(1) The person signing below certifies that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

      (e)(2) The person signing below certifies that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 1.56(c) more than three months prior to filing this IDS.

OR

(2) The fee set forth in 37 C.F.R. § 1.17(p).

      A check in the amount of \$180.00 is enclosed.

       37 C.F.R. § 1.97(d). Filed on or before payment of the issue fee.

And, BOTH of the following:

(1) one statement from 37 C.F.R. § 1.97(e);

      (e)(1) The person signing below certifies that each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

      (e)(2) The person signing below certifies that no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 1.56(c) more than three months prior to filing this IDS.

AND

(2) The fee set forth in 37 C.F.R. § 1.17(p).

      A check in the amount of \$180.00 is enclosed.

Accompanying this IDS is a list of references and a copy of each reference listed therein, EXCEPT copies of references waived under:

(A) one or more of the following sections of 37 C.F.R. § 1.98 (as indicated by an "X" to the left of the appropriate paragraph(s)):

\_\_\_\_\_ 37 C.F.R. § 1.98(c) as being cumulative (marked with an "\*" on the Form PTO-1449).

\_\_\_\_\_ 37 C.F.R. § 1.98(d) as being previously submitted in parent application  
\_\_\_\_\_/\_\_\_\_\_, to which the present application claims priority under 35  
U.S.C. § 120.

(B) 1273 Off. Gaz. Pat. Office 55 as being submitted with respect to an application filed after June 30, 2003.

The Commissioner is hereby authorized to charge shortages or credit overpayments to Deposit Account No. 500393. A Fee Transmittal is enclosed in duplicate for fee processing purposes.

Respectfully submitted,

SCHWABE, WILLIAMSON & WYATT, P.C.

Dated: August 6, 2004

  
Robert L. Harrington  
Registration No. 20,994

Pacwest Center, Suites 1600-1900  
1211 SW Fifth Avenue  
Portland, Oregon 97204  
Telephone: 503-222-9981

PTO/SB/DBA (09-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/706,507
Filing Date	11/11/2003
First Named Inventor	Raymond Bushnell
Art Unit	Not yet known
Examiner Name	Not yet known
Attorney Docket Number	108682-133291

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3442632	05/06/1969	Bertrand L. Mayland	
		US- 3468641	09/23/1969	Hans Werner Gross	
		US- 3471274	10/07/1969	Richard E. Quigley	
		US- 3572297	03/23/1971	R.G. Murray	
		US- 3799124	03/26/1974	Michael R. Swain	
		US- 3897757	08/05/1975	Lawrence Abello	
		US- 3963000	06/15/1976	Katuaki Kosaka	
		US- 3995421	12/07/1976	Sajio Kuroiwa	
		US- 3995600	12/07/1976	John J. DeLuca	
		US- 4016837	04/12/1977	Fred Wentworth, Jr.	
		US- 4079703	03/21/1978	Kimitaka Yamane	
		US- 4086878	05/02/1978	Erwin Eisele	
		US- 4112875	09/12/1978	James C. Fletcher	
		US- 4141326	02/27/1979	William G. Wolber	
		US- 4181100	01/01/1980	Kimitaka Yamane	
		US- 4193755	03/18/1980	V. Guarnaschelli	
		US- 4274383	06/23/1981	Jerry W. Adams	
		US- 4367700	01/22/1983	James L. Pace	
		US- 4370970	02/01/1983	Paul Kunz	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>	<b>Complete if Known</b>	
	Application Number	10/706,507
	Filing Date	11/11/2003
	First Named Inventor	Raymond Bushnell
	Art Unit	Not yet known
	Examiner Name	Not yet known
Attorney Docket Number	108682-133291	

Sheet 2 of 4

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4385615	05/31/1983	Robert Keane	
		US- 4389981	06/28/1983	Stanley Meyer	
		US- 4458634	07/10/1984	Edwin R. Carr	
		US- 4508064	04/02/1985	Kenji Watanabe	
		US- 4622924	11/18/1986	William N. Lewis	
		US- 4953514	09/04/1990	Bernd Beicht	
		US- 4955351	09/11/1990	Alfred Lewis	
		US- 5085176	02/04/1992	Wm. J. Brinkley III	
		US- 5088452	02/18/1992	Takashi Iwaki	
		US- 5092281	03/03/1992	Takashi Iwaki	
		US- 5115768	05/26/1992	Walter Peschka	
		US- 5119768	06/09/1992	Carl Russell	
		US- 5140966	08/25/1992	Men L. Wong	
		US- 5178118	01/12/1993	Yoshiro Nakamats	
		US- 5183011	02/02/1993	Isao Fujii	
		US- 5226400	07/13/1993	Desmond A. Birch	
		US- 5282497	02/01/1994	Allen Allison	
		US- 5293857	03/15/1994	Stanley Meyer	
		US- 5359968	11/01/1994	Noriaki Shiraishi	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 3 of 4

**Complete if Known**

Application Number	10/706,507
Filing Date	11/11/2003
First Named Inventor	Raymond Bushnell
Art Unit	Not yet known
Examiner Name	Not yet known
Attorney Docket Number	108682-133291

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5363828	11/15/1994	Osao Yamashita	
		US- 5398663	03/21/1995	Arumadura Kulasinghe	
		US- 5438961	08/08/1995	Walter Peschka	
		US- 5462021	10/31/1995	Takanori Minami	
		US- 5648952	08/27/1996	Theodore Stock	
		US- 5603290	02/18/1997	Michael Swain	
		US- 5743080	04/28/1998	J. Lyell Ginter	
		US- 5752157	05/12/1998	Takeshi Yamashita	
		US- 5785538	06/16/1998	Erwin Krimmer	
		US- 5816223	10/06/1998	James Richard Jamrog	
		US- 5832718	11/10/1998	Friedemann Suttrop	
		US- 5890472	04/06/1999	Chitoshi Saito	
		US- 5899188	05/04/1999	Joseph Firey	
		US- 5934260	08/10/1999	Kishor Gadkaree	
		US- 5944003	08/31/1999	Akinori Osanai	
		US- 5946916	09/07/1999	Livien Ven	
		US- 5979418	11/09/1999	Masayuki Saruwatari	
		US- 6003312	12/21/1999	Ralph C. Schlichtig	
		US- 6015133	01/18/2000	Daniel L. DeLand	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>2</sup> (if known)	MM-DD-YYYY			

Examiner Signature	Date Considered
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 4**Complete if Known**

Application Number	10/706,507
Filing Date	11/11/2003
First Named Inventor	Raymond Bushnell
Art Unit	Not yet known
Examiner Name	Not yet known
Attorney Docket Number	108682-133291

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6044831	04/04/2000	Naoya Takagi	
		US- 6053153	04/25/2000	Winfried Moser	
		US- 6067966	05/30/2000	Chitoshi Saito	
		US- 6076355	06/20/2000	Llven D. Ven	
		US- 6095121	08/01/2000	Akinori Osanal	
		US- 6116221	09/12/2000	Mikio Matsumoto	
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		US- 6138644	10/31/2000	Masayuki Saruwatan	
		US- 6138655	10/31/2000	James Michael Kerns	
		US- 6155239	12/05/2000	Franklyn D. Dykstra	
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